

FIG. 1

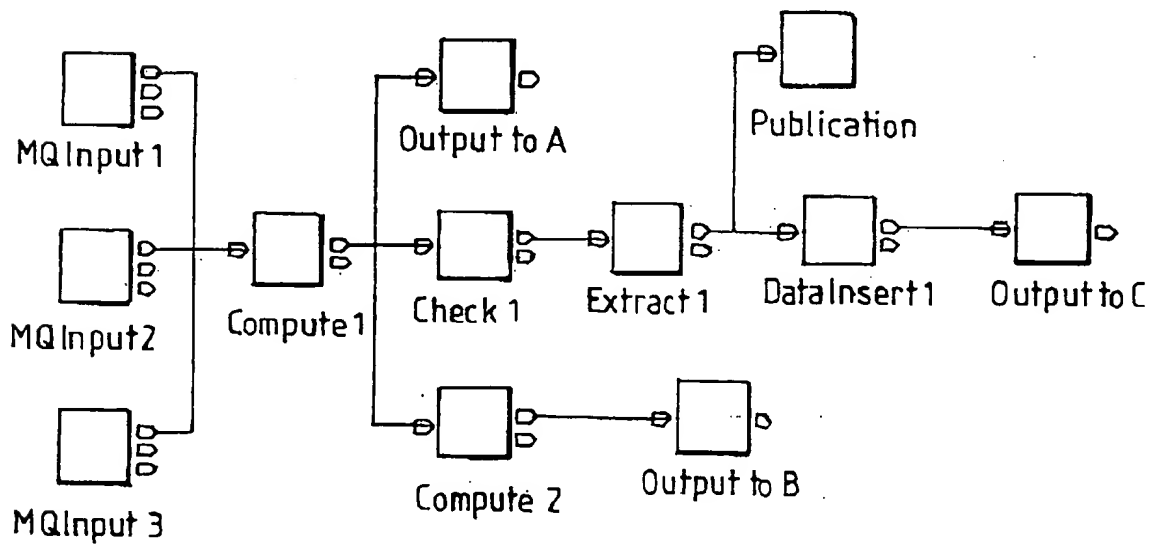


FIG. 2

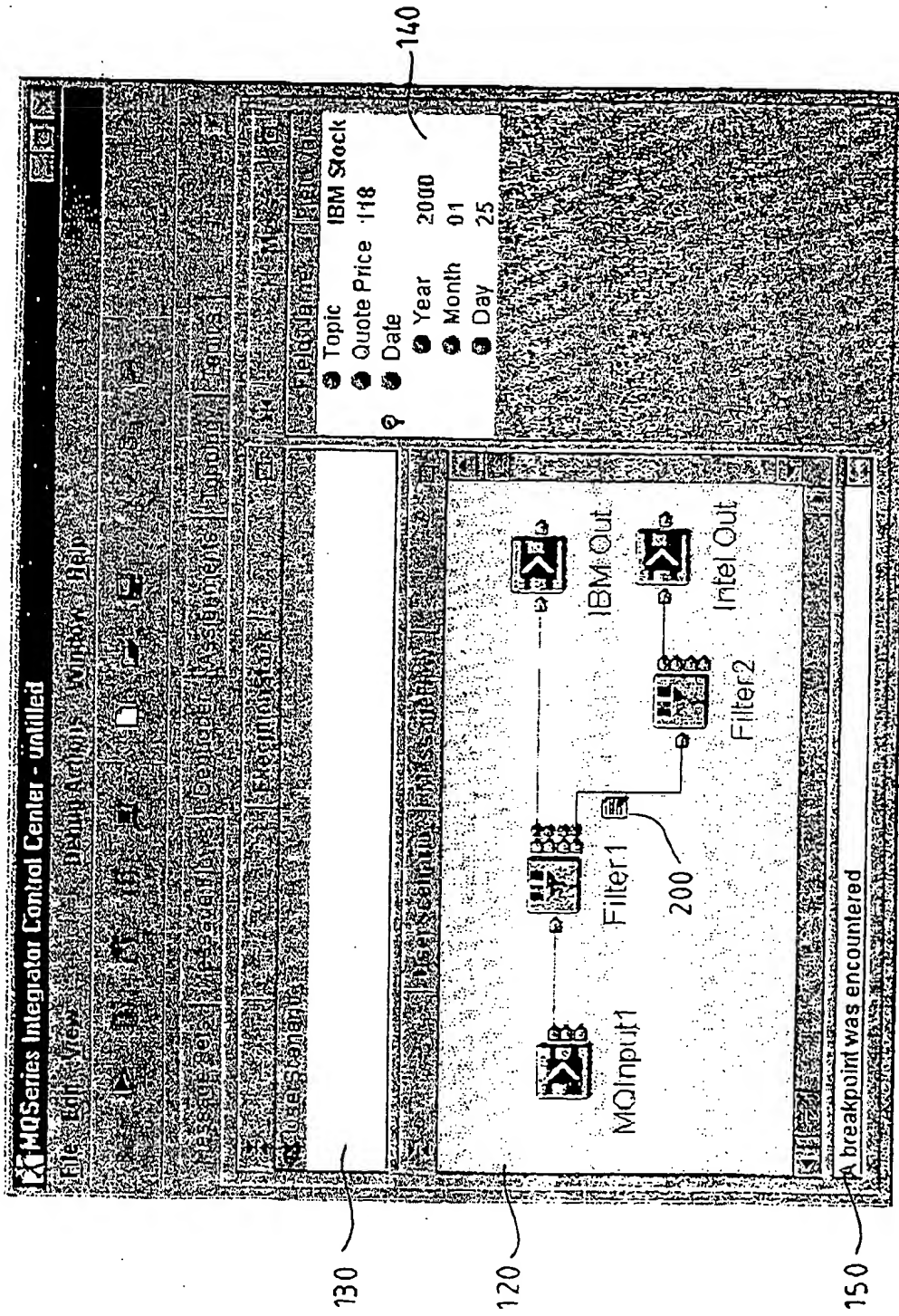


FIG. 3

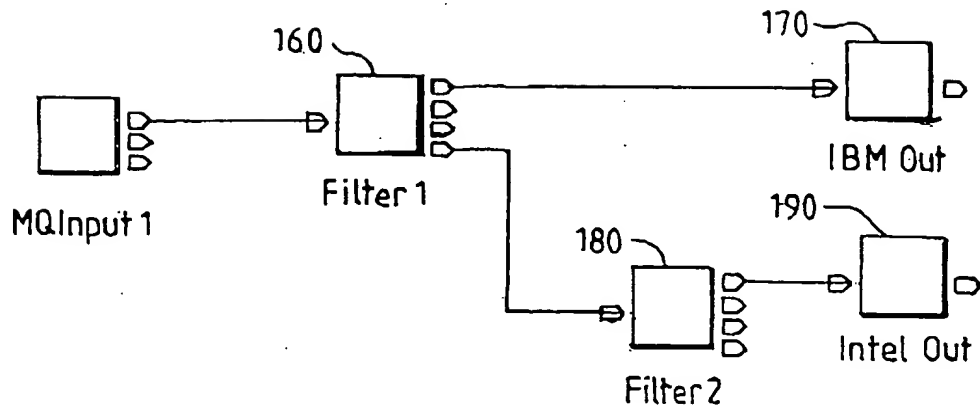


FIG. 4

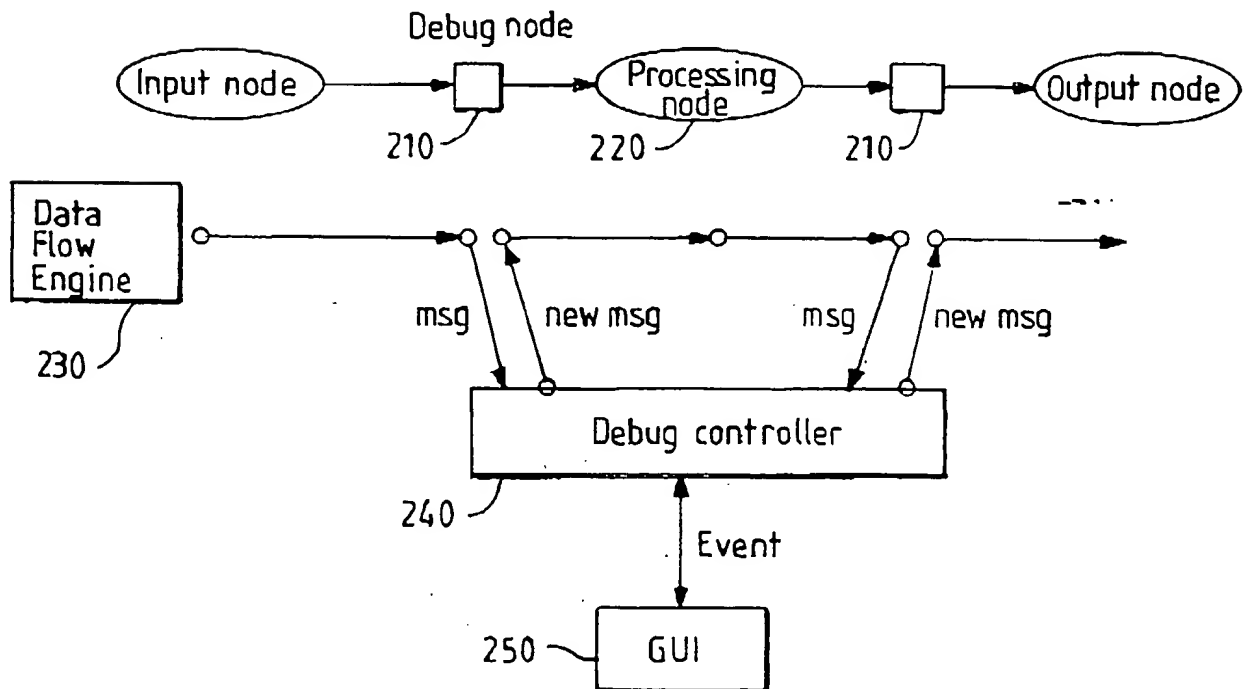


FIG. 5

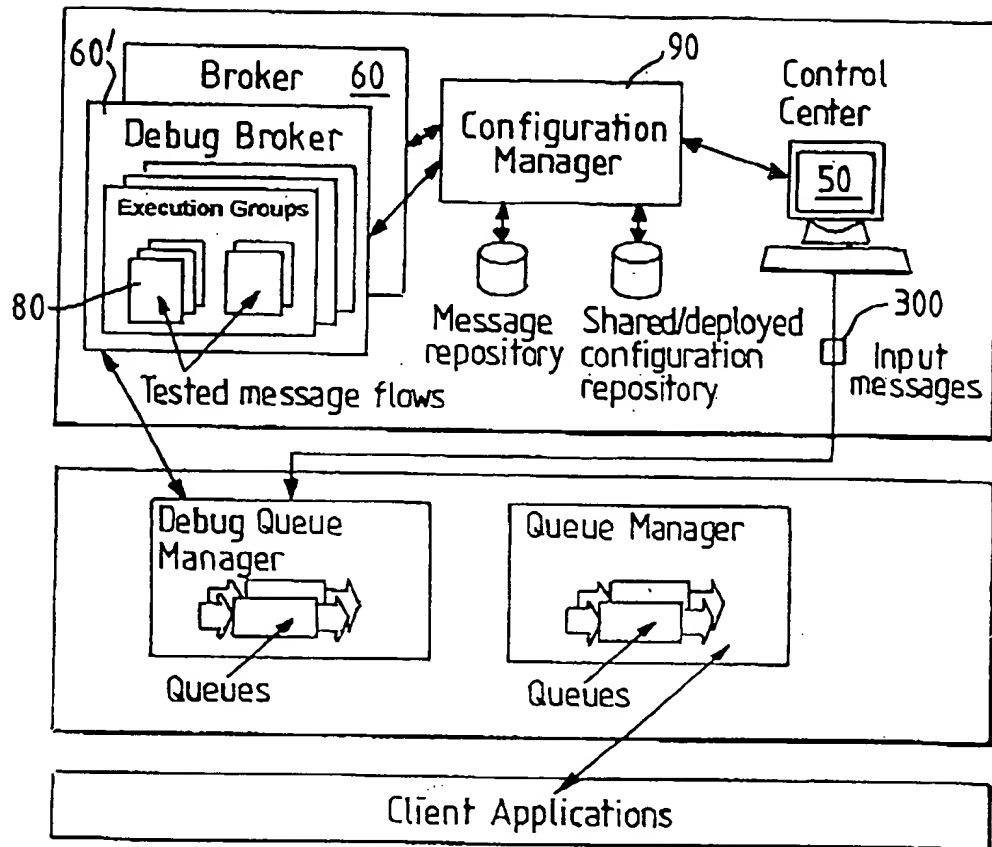


FIG. 6

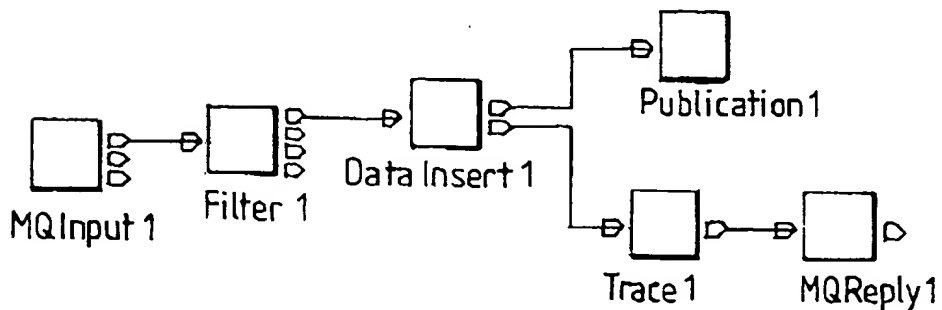


FIG. 7

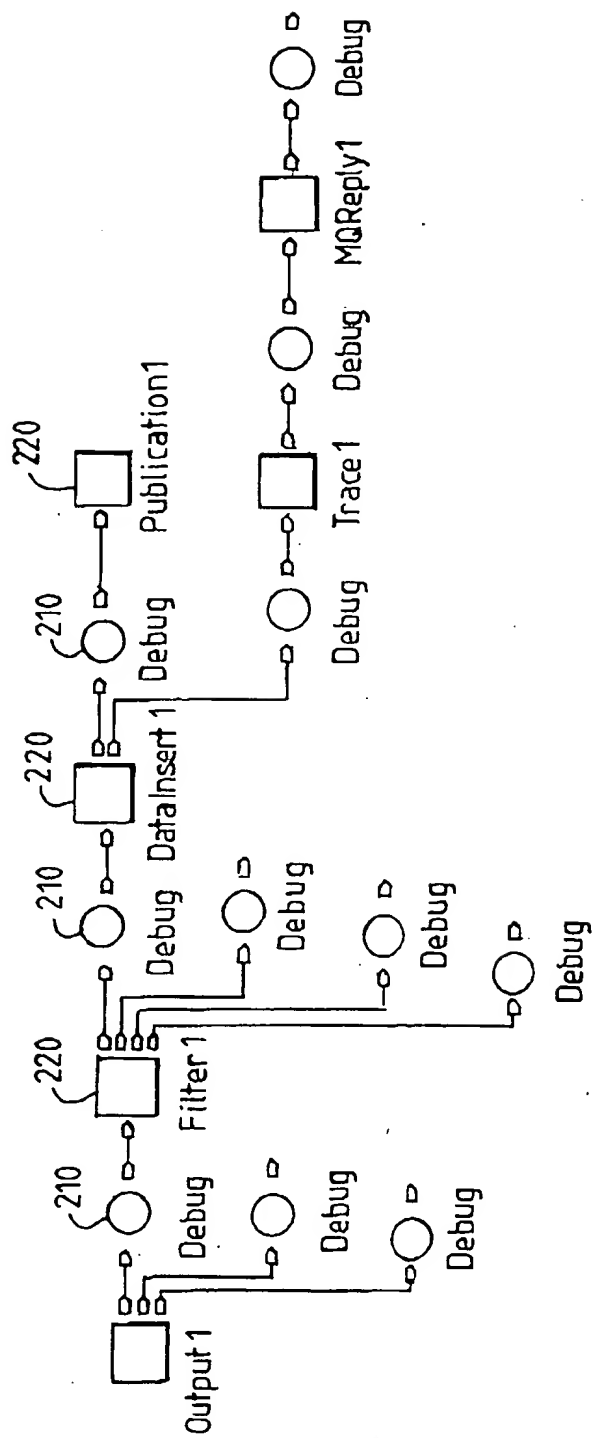


FIG. 8

### Debugger Algorithm

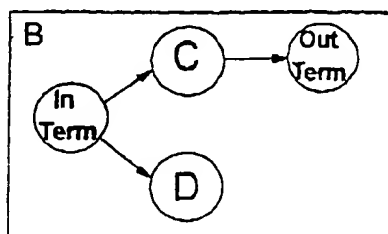
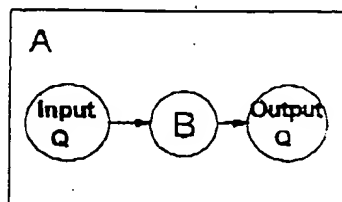
- Upon receiving communication from a debug node:
  - ▶ Receive debug node identification
  - ▶ Receive message structure and content
  - ▶ Is there a breakpoint associated with this position?
    - Yes: display message and position indication and wait for user command.
  - ▶ Send message structure and content back to debug node
  - ▶ Send resume indication to debug node

**FIG. 9**

### Debug Node Algorithm

- Receive message from input port
- Initiate communication with debugger
- Send identification of the debug node
- Send message structure and content
- Wait for indication to resume (from the debugger)
- Receive message structure and content from debugger
- Conclude communication with debugger
- Propagate the message (received from the debugger) to the out port

**FIG. 10**



**FIG. 11**